

AMENDMENTS TO THE CLAIMS

Claims 1-6 (cancelled).

Claim 7 (original): A process for the removal of sulfur compounds from fluids, consisting of contacting the sulfur compound contaminated fluid with a composition, which is a physical mixture of iron oxide, iron hydroxide, or combinations thereof, and an activator selected from the group consisting of platinum oxides, gold oxides, silver oxides, copper oxides, copper metals, copper carbonates, copper alloys, copper salts, cadmium oxides, nickel oxides, palladium oxides, lead oxides, mercury oxides, tin oxides, manganese oxides, manganese metals, manganese alloys, manganese carbonates, manganese salts, cobalt oxides, and combinations thereof, wherein the activator is present in the composition in an amount of 0.125% by weight to 5% by weight of the total weight of the composition, and said contacting is conducted at a temperature of 300°C or less.

Claim 8 (original): A process for the removal of sulfur compounds from fluids, consisting of contacting the sulfur contaminated fluid with a composition, which is a physical mixture of iron oxide, iron hydroxide, zinc oxide, zinc hydroxide, or combinations thereof, and an activator selected from the group consisting of copper oxides, copper metals, copper carbonates, copper alloys, copper salts, manganese oxides, manganese metals, manganese alloys, manganese carbonates, manganese salts, and combinations thereof, wherein the activator is present in the composition in an amount of 0.125% by weight to 2% by weight of the total weight of the composition, and said contacting is conducted at a temperature of 300°C or less.

Claim 9 (original): A process for the removal of sulfur compounds from fluids, consisting of contacting the sulfur compound contaminated fluid with a composition, which is a physical mixture of manganese oxide, manganese hydroxide, or combinations thereof,

Serial No.: 09/683,988
Docket No.: 55295 (43640/55295)

and an activator, with said activator selected from the group consisting of platinum oxides, gold oxides, silver oxides, copper oxides, copper metals, copper carbonates, copper alloys, copper salts, cadmium oxides, nickel oxides, palladium oxides, lead oxides, mercury oxides, tin oxides, cobalt oxides, and combinations thereof, wherein the activator is present in the composition in an amount of 0.125% by weight to 5% by weight of the total weight of the composition, and said contacting is conducted at a temperature of 300°C or less.